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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/930,095	08/15/2001		Indermohan S. Monga	14985BAUS01U	1009
34845	7590	09/12/2005		EXAMINER	
STEUBING 125 NAGOO		ICGUINESS & N	PAYNE, I	PAYNE, DAVID C	
ACTON, M		ı		ART UNIT	PAPER NUMBER
			2638	<u> </u>	

DATE MAILED: 09/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Anti-us Commence	09/930,095	MONGA, INDERMOHAN S.
Office Action Summary	Examiner	Art Unit
	David C. Payne	2638
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 07 Ju	<u>une 2005</u> .	
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.	
3) Since this application is in condition for alloward	nce except for formal matters, pro	secution as to the merits is
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.
Disposition of Claims		
4) ☐ Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-27 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the Education of the Education of the drawing (s) be held in abeyance. See ion is required if the drawing (s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: <u>See Continue</u>	ite atent Application (PTO-152)

Continuation of Attachment(s) 6). Other: attachment pages 4 and 5 of (60225335).

ASON uses IP routing and MPLS-based protocols to set up and manage optical circuits. It also provides a UNI for clients of the ASON network to request a variety of end-to-end optical services.

OSA is an intelligent agent residing on end-systems interacting with the optical edge providing value-added services through the ASON-enabled optical core. OSA uses the ASON UNI to interact with ASON Optical Channel Controller (OCC) in order to communicate with the intelligent optical core and request switched optical paths to other UNI/OSA enabled end-systems. OSA can be viewed as a subsystem that understands client networks connected to ASON. FIG. 1A illustrates where OSA sits with respect to ASON and the optical network.

OSA provides more agility to the optical network based on service requirements of the end-systems connected to the ASON network. OSA can be used to support a number of different applications.

One exemplary OSA application is authenticated auto discovery. When an OSA endsystem is connected to an ASON network, it discovers other authenticated OSA endsystems it can connect to. Then, given the attachment address of another OSA agent,
ASON network can dynamically create an optical channel between the OSA agents with
appropriate attributes. This feature can be used to provide VPN service based on network
authentication. FIG. 2 depicts authenticated auto discovery with an OSA enabled storage
device.

Another exemplary OSA application is policy-based bandwidth management. There can be a large number of services provided by OSA based on policies configured at the OSA client. The policies enable OSA to fully leverage the automatic switched capabilities of the Nortel intelligent optical core. Some examples of the services are:

BW Allocation Monitor: OSA monitors the bandwidth utilization of the connection to the optical core. Based on the policies configured, OSA can dial for more bandwidth if

utilization is high, tear down bandwidth if utilization is low, or just provide a bandwidth limiting function to avoid over-billing.

Advanced reservation/Time of day: OSA can initiate a UNI request to ask for a connection to another OSA endpoint at certain times in the day for a specified duration. This feature can be used for backup applications, where a branch office connects to the backup storage provider/facility for a limited time to execute the backup function. This feature can also provide extra bandwidth for certain times in order to handle predetermined traffic surges.

Bandwidth Broker/Auction: It is predicted that with every service provider deploying fiber in large quantities, there will be an opportunity for a provider to have connections to multiple optical networks managed by different infrastructure providers. The optical edge box can use OSA to negotiate a connection to the other end based on price. OSA can query each optical provider network it is connected to for rate information for a certain service, for example, for a 10 G connection for 10 hours requiring 1:1 protection to a certain endpoint. The intelligent optical network can respond to such queries with rate information that varies with the current utilization of the particular optical network. OSA compares the rates and can choose the provider for the bandwidth reservation. This could be a function for the OSA-N.

Yet another exemplary OSA application is alternate site failover. This feature provides fast alternate site disaster recovery function. Currently, a failure in any network device or storage connected to the optical core, the layer 3 connections time out, causing the peer device to initiate a connection to another endpoint based upon IP routing information. This usually takes a long time and results in data loss. OSA can provide a feature where it informs the ASON about the backup device ahead of time, for example, when initiating a connection. ASON monitors its connections with OSA systems by polling them periodically. In case of an edge system failure, ASON detects it and automatically initiates a new connection to the backup device from the peer devices based on OSA configuration. This will provide a fast disaster recovery function or a pre-planned

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DETAILED ACTION

- 1. Regarding applicant's traverse of rejection based on non compliance of 35 U.S.C. 119 provisional application, arguments are not persuasive. Applicant recited passages on pages 4 and 5 make no mention of high-level and low-level requirements as claimed (see attached pages 4 and 5 from provisional application 60225335). Applicant attempts to tie certain items such as bandwidth utilization or pricing to aforementioned requirements without express indication in the provisional. However, applicant attempts to claim broadly in the instant application. Priority cannot be given to broadly claimed subject matter such as high and low level requirements where the provisional application makes no attempt to describe features as such. Applicant must claim subject matter in the manner it is disclosed in the provisional in order to obtain priority.
- Regarding applicant's traverse of the Naveh reference as failing to teach optical networks. The
 Examiner disagrees. The reference clearly teaches, (col. 16 lines 9-21) optical networks, repeated
 herein:

"For example, communication interface 818 may be an integrated services digital network (ISDN) card or a modem to provide a data communication connection to a corresponding type of telephone line. As another example, communication interface 818 may be a local area network (LAN) card to provide a data communication connection to a compatible LAN. Wireless links may also be implemented. In any such implementation, communication interface 818 sends and receives electrical, electromagnetic or **optical signals** that carry digital data streams representing various types of information." (emphasis added)

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Applicant's arguments with respect to claims 1-27 have been considered but are moot in view of the new ground(s) of rejection.

Priority

- Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. 119 as follows:
- 2. The later-filed application must be an application for a patent for an invention which is also disclosed in the prior application (the parent or original nonprovisional application or provisional application); the disclosure of the invention in the parent application and in the later-filed application must be sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. See *Transco Products, Inc. v. Performance Contracting, Inc.*, 38 F.3d 551, 32 USPQ2d 1077 (Fed. Cir. 1994).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claim(s) 1, 2, 5, 6, and 7 is/are rejected under 35 U.S.C. 102(e) as being anticipated by Naveh et al. US 6,466,984 B1 (Naveh).

Re claims 1, 2, 6, and 7, Naveh disclosed

A method for managing connection quality for a user in an optical communication system, the method comprising: ascertaining high-level communication requirements and non-requirements of the user;

determining a set of lower level communication services for the user based upon the high-level communication requirements and non-requirements of the user; and obtaining the lower-level communication services for the user. (see e.g., 11/1-15, 11/45-60, 17/10-24).

Re claim 5, the modified invention of Naveh and Schofield disclosed wherein obtaining the lower level communication services for the user comprises: interacting with peer users to obtain the lower level communication services for the user (see Naveh, col./lines: 5/19-67 and 6/1-35).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim(s) 3, 4, and 8-27 is/are rejected under 35 U.S.C. 103(a) as being unpatentable over Naveh et al. US 6,466,984 B1 (Naveh) and Schofield et al. US 20030212829 A1 (Schofield).

Re claims 3, 8, 9, 27, 12-20, 21, 23, and 24, Naveh disclosed a method of mapping/managing high-level requirements into low-level requirements in a network. Naveh does not disclose an optical service manager and UNI.

Schofield disclosed a method of managing optical services within a core network with users attached across a UNI. It would have been obvious to one of ordinary skill in the art at the time of invention to use the Naveh bandwidth management scheme in the Schofield network since the policy reservations tools discussed in Naveh such as Diffserv and RSVP are typically implemented in optical network.

Re claims 4, 10, 22 The modified invention of Naveh and Schofield disclosed wherein the core optical

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communication network comprises an automatically switched optical network (ASON) (see Schofield,

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par. 0071)

Re claim 11, 25, 26 The modified invention of Naveh and Schofield disclosed wherein obtaining the

lower level communication services for the user comprises: interacting with peer users to obtain the

lower level communication services for the user (see Naveh, col./lines: 5/19-67 and 6/1-35).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to David C. Payne whose telephone number is (571) 272-3024. The examiner can normally

be reached on M-F, 7a-4p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Kenneth Vanderpuye can be reached on (571) 272-3078. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

Dcp

David C. Payne Patent Examiner

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